FORM NO. 3317–907GB

TORO®

43 cm Electric Recycler®

Walk Power Mower

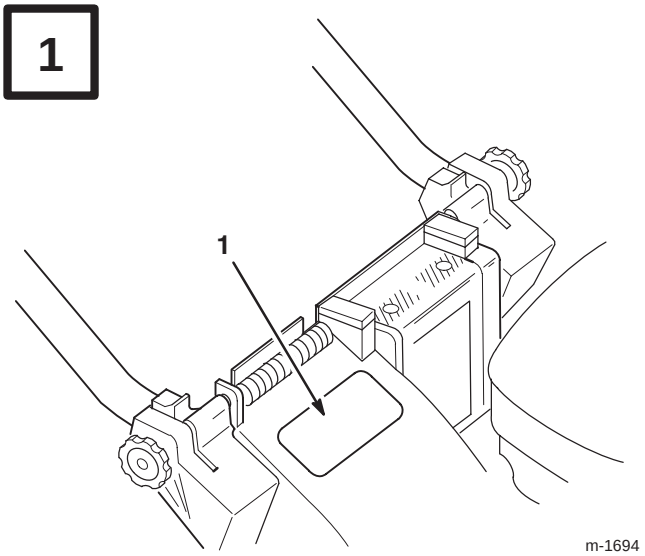
Model No. 21050B — 6900001 & Up
Model No. 21050BE — 6900001 & Up

PROTOTYPE

Operator's Manual

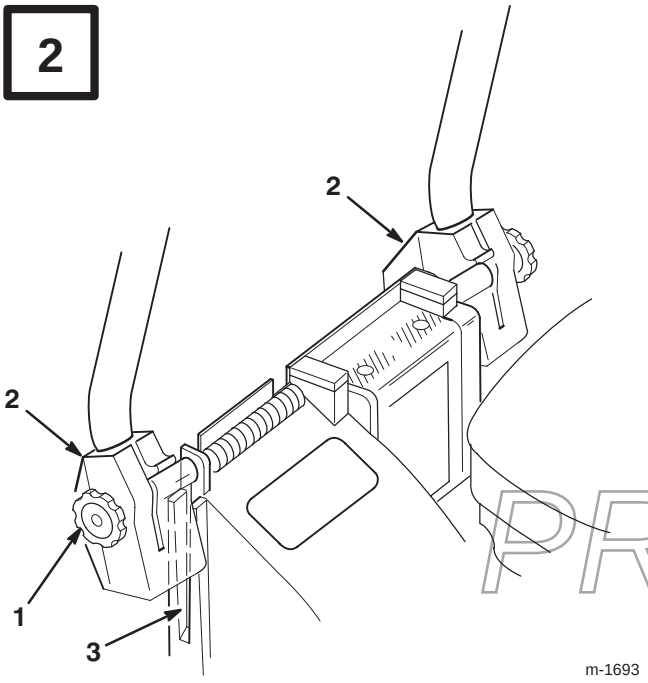
Figures

1



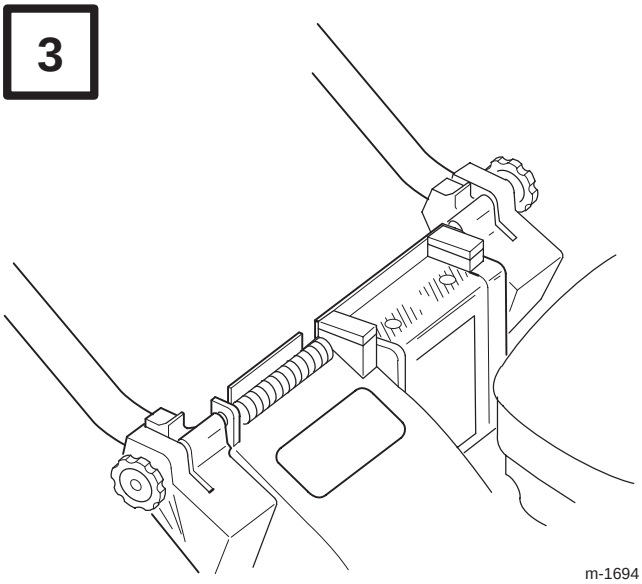
1. Model and serial number decal

2

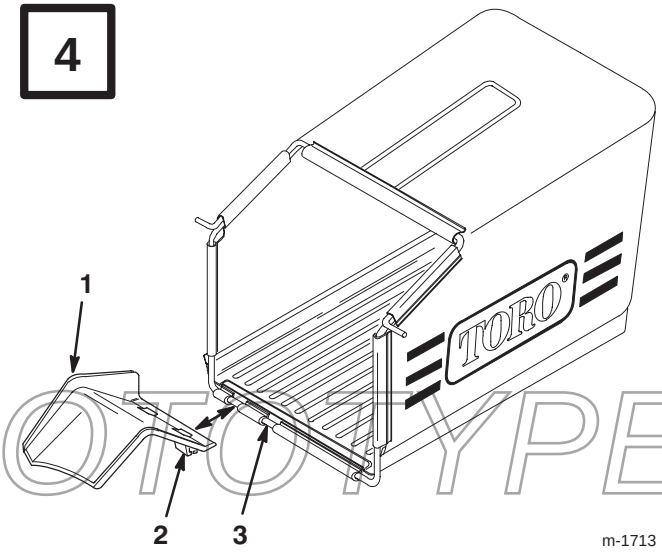


1. Knob
2. Handle bracket
3. Housing pocket

3



4



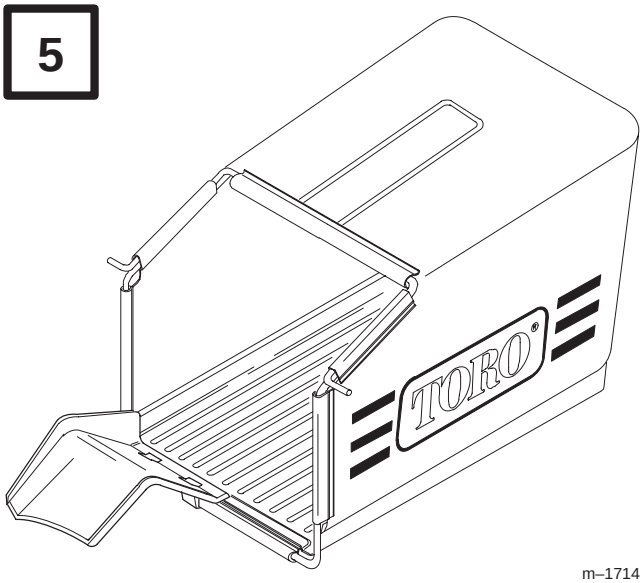
1. Grass bag ramp
2. Tab
3. Grass bag frame

PROTOTYPE

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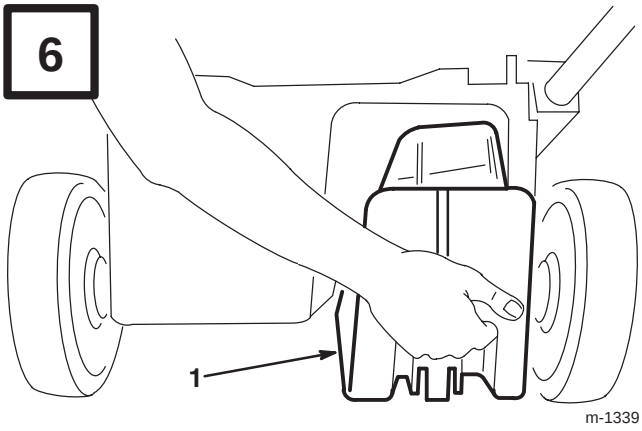
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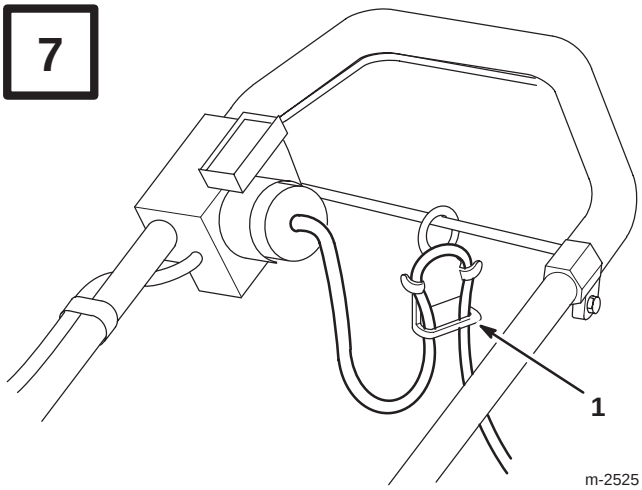
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m-1339

1. Plug

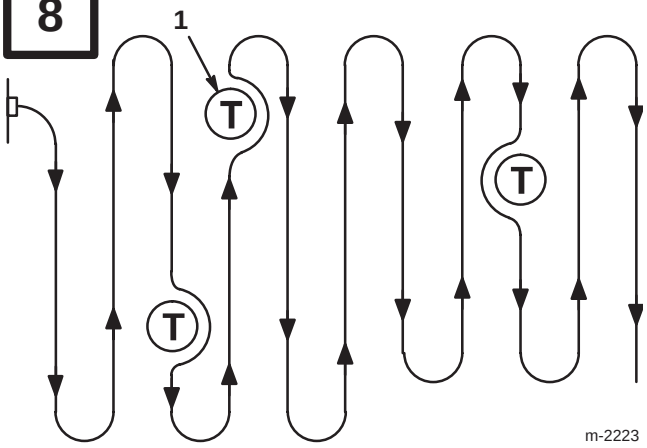
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m-2525

1. Cord lock

8

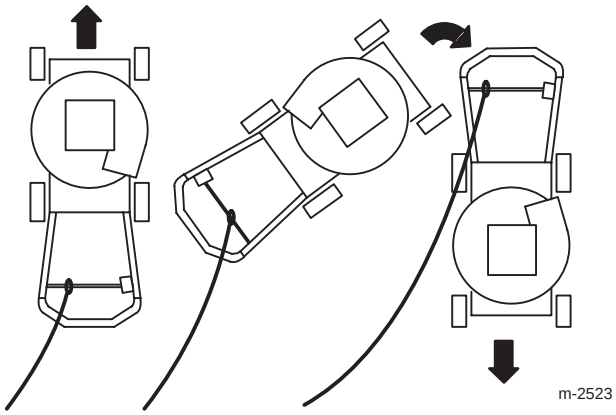


m-2223

1. T = obstacles

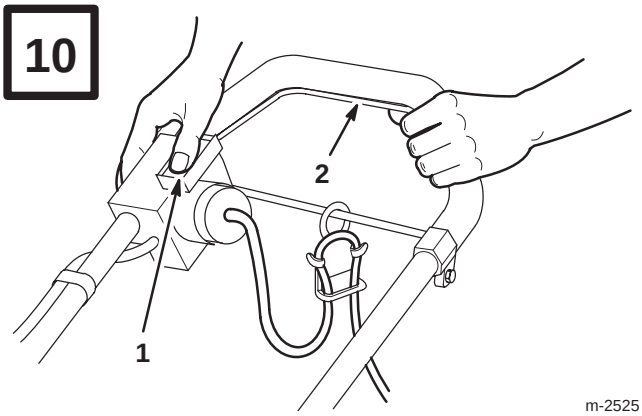
PROTOTYPE

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m-2523

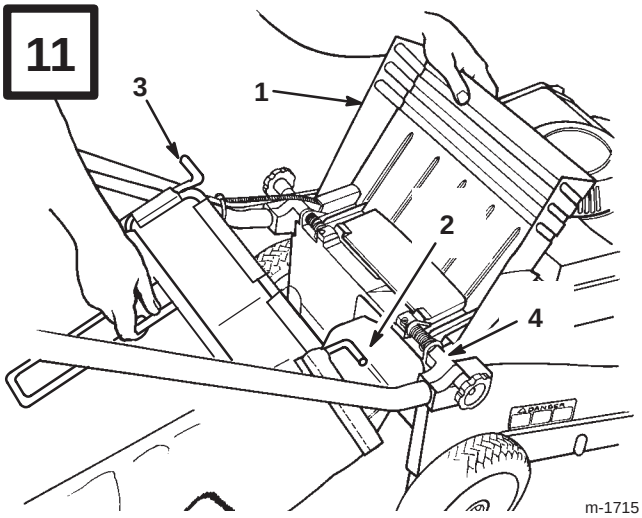
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m-2525

1. Button
2. Control bar

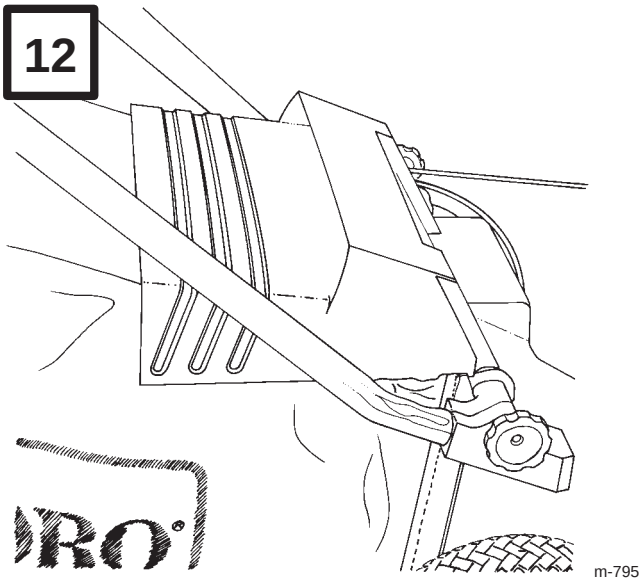
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m-1715

1. Discharge door
2. Bag ramp
3. Bag frame hook
4. Mounting bracket

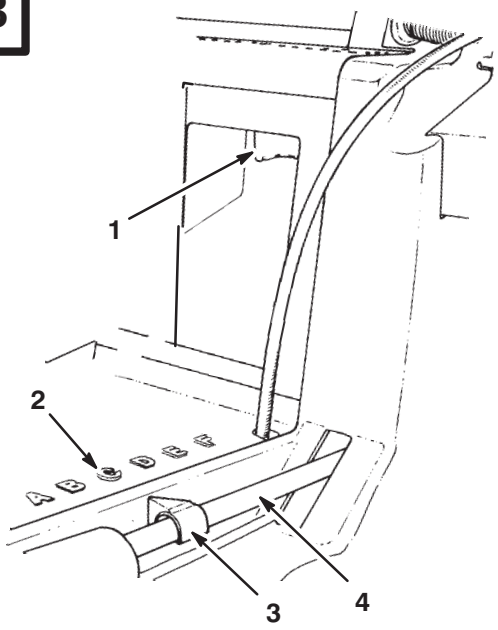
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m-795

PROTOTYPE

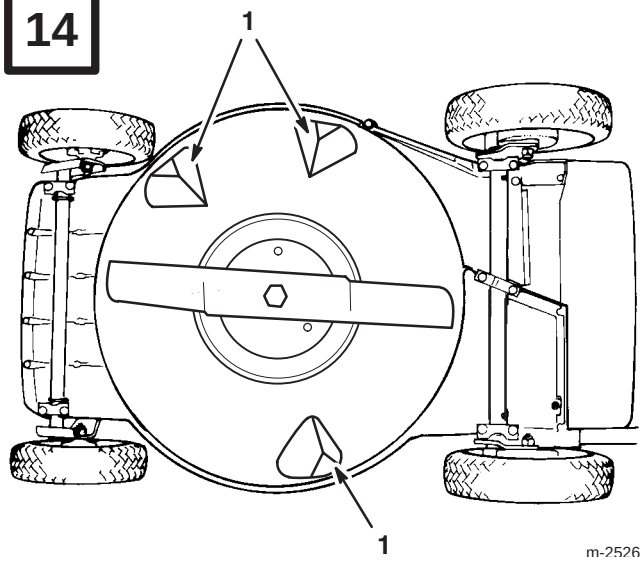
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m-1711

1. Height-of-cut adjustment lever
2. Height settings
3. Pointer
4. Link rod

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m-2526

1. Kicker

PROTOTYPE

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Introduction

Thank you for purchasing a Toro product.

All of us at Toro want you to be completely satisfied with your new product, so feel free to contact your local Authorized Service Dealer for help with service, genuine Toro parts, or other information you may require.

Whenever you contact your Authorized Service Dealer or the factory, always know the model and serial numbers of your product. These numbers will help the Service Dealer or Service Representative provide exact information about your specific product. You will find the model and serial number decal located in a unique place on the product (Fig. 1).

For your convenience, write the product model and serial numbers in the space below.

Model No. _____

Serial No. _____

Read this manual carefully to learn how to operate and maintain your product correctly. Reading this manual will help you and others avoid personal injury and damage to the product. Although Toro designs, produces and markets safe, state-of-the-art products, you are responsible for using the product properly and safely. You are also responsible for training persons who you allow to use the product about safe operation.

The Toro warning system in this manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death. DANGER, WARNING and CAUTION are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

PROTOTYPE

DANGER signals an extreme hazard that will cause serious injury or death if the recommended precautions are not followed.

WARNING signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

CAUTION signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Two other words are also used to highlight information. “Important” calls attention to special mechanical information and “Note” emphasizes general information worthy of special attention.

Safety

WARNING: When using the machine the safety rules shall be followed. For your own safety and the safety of those around you, please read these instructions before operating the machine. Please keep the instructions for later use.

Training

1. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
2. Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations may restrict the age of the operator.
3. Never mow while people, especially children, or pets are nearby.
4. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Preparation

1. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
2. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
3. Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
4. On multi–bladed machines, take care as rotating one blade can cause other blades to rotate.

Operation

1. Mow only in daylight or in good artificial light.
2. Avoid operating the equipment in wet grass, where feasible.
3. Always be sure of your footing on slopes.
4. Walk, never run.
5. For wheeled rotary machines, mow across the face of slopes, never up and down.
6. Exercise extreme caution when changing direction on slopes.
7. Do not mow excessively steep slopes.
8. Use extreme caution when reversing or pulling the lawnmower towards you.
9. Stop the blade(s) if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
10. Never operate the lawnmower with defective guards or shields, or without safety devices, for example deflectors and/or grass catchers, in place.
11. Switch on the motor according to instructions and with feet well away from the blade(s).
12. Do not start the motor when standing in front of the discharge chute.
13. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
14. Never pick up or carry a lawnmower while the motor is running.
15. Remove the disabling device from the machine:
    - whenever you leave the machine;

PROTOTYPE

- before clearing a blockage;
- before checking, cleaning or working on the lawnmower;
- after striking a foreign object. Inspect the lawnmower for damage and make repairs if necessary;
- if lawnmower starts to vibrate abnormally (check immediately).

Maintenance and Storage

1. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
2. To reduce the fire hazard, keep the motor free of grass or leaves.
3. Check the grass catcher frequently for wear or deterioration.
4. Replace worn or damaged parts for safety.
5. If the supply cord of this lawnmower is damaged, it must be replaced by a special cord or assembly available from an Authorized Toro Service Dealer.
6. Ensure that only replacement cutting means of the right type are used.

Sound Pressure Level

This unit has an equivalent continuous A-weighted sound pressure at the operator ear of: 81 dB(A), based on measurements of identical machines per ANSI B71.5-1984 procedures.

Sound Power Level

This unit has a sound power level of: 96 dB(A)/1 pW, based on measurements of identical machines per Directive 84/538/EEC and amendments.

Vibration Level

This unit has a maximum hand-arm vibration level of 4 m/s^2, based on measurement of identical machines per ISO 5349 procedures.

PROTOTYPE

Symbol Glossary

Safety alert triangle — symbol within triangle indicates a hazard.



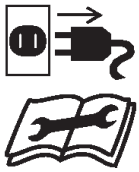
Safety alert symbol.



Read operator's manual.



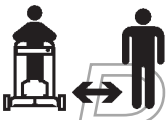
Switch off: Remove plug from mains before adjusting, cleaning or if cable is entangled or before leaving the lawnmower unattended for any period.



Keep dry.



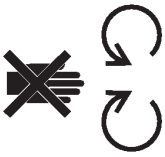
Stay a safe distance from the mower.



Thrown or flying objects — Whole body exposure.



Do not open or remove safety shields while engine is running.



Shut off engine and remove key before leaving operator position.



Severing of toes or fingers, rotary mower blade.



Wait until all machine components have completely stopped before touching them. (Blades continue to rotate after machine is switched off.)



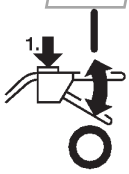
Cutting element — height adjustment.



Double insulated.

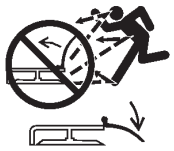


Push button in, raise bail to handle to run mower, release bail to stop mower.



PROTOTYPE

Thrown or flying objects — Rotary side-mounted mower. Keep deflector shield in place.



Electrical shock/electrocution



Do not mow in the rain or leave the lawnmower outdoors while raining.



Assembly

IMPORTANT: Do not connect extension cord to mower until mower is fully assembled. Also, to prevent someone from accidentally starting the mower, always unplug extension cord from household outlet when adding or switching attachments.

Handles

1. Loosen knobs on mounting brackets (Fig. 2).
2. Position mounting brackets in a vertical position so that holes face up.
3. Slide handle ends into holes in mounting brackets until handle ends are completely seated in brackets (Fig. 2).
4. Rotate handle and mounting brackets rearward until brackets fit securely into housing pockets (Fig. 3).
5. Tighten knobs until edges of slots on top of mounting brackets touch.

Grass Bag Ramp

1. Snap three (3) tabs on grass bag ramp onto grass bag frame (Fig. 4 & 5).

Discharge Tunnel Plug

1. Stop motor, unplug extension cord and wait for all moving parts to stop.
2. Open discharge door and insert plug into discharge tunnel opening (Fig. 6). Since the plug is slightly wider than the discharge tunnel opening, you must rotate the plug clockwise slightly while inserting it.
3. Push plug all the way into the discharge tunnel opening.
4. Lower discharge door over plug.

Before Starting

Secure Extension Cord (Model 21050B only)

PROTOTYPE

Use only an extension cord recommended for outdoor use. Refer to Extension Cord Chart.

EXTENSION CORD CHART		
If length of extension cord is less than or equal to:	100 ft.	150 ft.
Assure wire size gauge (A.W.G.) in cord is:	14	12

Note: Use of an extension cord over 150 feet is not recommended.

⚠ WARNING

POTENTIAL HAZARD
- **Contact with water while operating unit could cause electric shock.**

WHAT CAN HAPPEN
- **Electric shock can cause injury or death.**

HOW TO AVOID THE HAZARD
- **Don't handle plug or mower with wet hands or while standing in water.**
- **Use only an extension cord recommended for outdoor cold weather use. Refer to Extension Cord Chart, page 5.**

1. Form a loop in extension cord and secure it in cord lock (Fig. 7).

2. Connect extension cord to mower (Fig. 7).

   Note: Do not unplug extension cord by pulling on cord. To unplug, grasp the plug, not the cord.

⚠ WARNING

POTENTIAL HAZARD
- **The electrical cord could be damaged.**

WHAT CAN HAPPEN
- **A damaged electrical cord could cause a shock or fire.**

HOW TO AVOID THE HAZARD
- **Thoroughly inspect electrical cord before using unit. If cord is damaged, do not operate unit. Replace or repair damaged cord immediately. Contact your TORO service dealer for assistance.**

Plan Your Mowing Pattern

By following the suggested mowing pattern, the risk of running over the cord with the mower will be reduced, and the extension cord will not sustain unnecessary wear. Do not allow extension cord to wrap around trees, shrubs or other obstacles.

1. Begin mowing near the electrical outlet and work outward (Fig. 8). Mow back and forth.

2. When turning at the end of a cut path, step over the cord and turn the mower (Fig. 9). The cord automatically slides to the other side and mowing can continue (Model 21050B only). Be very careful not to mow across the extension cord.

   WARNING: If extension cord is damaged, do not operate unit. Replace or repair damaged cord immediately. Contact your TORO service dealer for assistance.

Operation

⚠ WARNING

POTENTIAL HAZARD
- **When extension cord is connected to mower and plugged into a normal household outlet, the mower is operational. Someone could accidentally start the mower.**

WHAT CAN HAPPEN
- **Accidental starting of mower could seriously injure you or other bystanders.**

HOW TO AVOID THE HAZARD
- **Always remove extension cord from mower receptacle when leaving mower unattended, even for a short period of time.**

PROTOTYPE

Starting/Stopping Instructions

To Start Motor

1. Model 21050B only–Connect extension cord to mower (Fig. 7).

2. Plug end of extension cord into a normal household outlet.

3. Press down button and squeeze control bar to handle (Fig. 10). Release button.

To Stop Motor

1. Release control bar.

2. Disconnect extension cord from household outlet if mower will be unattended for any period of time.

Grass Bag

Installing

1. Stop motor, unplug extension cord and wait for all moving parts to stop.

2. Raise discharge door, slide bag ramp attached to bag into discharge opening, and hook bag frame onto mounting bracket (Fig. 11). Allow discharge door to rest on top of bag (Fig. 12).

Removing

1. **Stop motor, unplug extension cord and wait for all moving parts to stop.** For protection, always keep hands and feet away from mower housing while motor is running. Raise discharge door. While holding discharge door up, grasp handle on grass bag and lift bag off mower. Allow discharge door to close.

   Note: When removing the grass bag, the bag ramp scoops out any clippings that may be plugging the discharge opening. If the discharge opening remains plugged, clear all clippings from the mower with a stick.

Emptying

1. Grasp bag frame handle and rear of grass bag. Gradually tip bag forward to empty clippings.

Discharge Tunnel Plug

1. Stop motor, unplug extension cord and wait for all moving parts to stop.

2. Open discharge door and insert plug into discharge tunnel opening (Fig. 6). Since the plug is slightly wider than the discharge tunnel opening, you must rotate the plug clockwise slightly while inserting it.

3. Push plug all the way into the discharge tunnel opening.

4. Lower discharge door over plug.

Adjusting Cutting Height

The six (6) letters on the belt cover represent the height-of-cut settings. All wheels automatically adjust to the same height-of-cut setting.

1. Stop motor, unplug extension cord and wait for all moving parts to stop.

2. Use one or two fingers to squeeze the height-of-cut adjustment lever (Fig. 13).

   To raise the wheel height, squeeze the lever to unlock the height-of-cut and pull up on the mower. Release lever when desired height is found. To lower the height, squeeze the height-of-cut adjustment lever and push down on the mower **while rolling the mower forward**. Use the pointer on the link rod to locate the correct setting.

3. Make sure the height adjustment lever is locked into a height setting before beginning operation. The height should not change when the height-of-cut is locked.

PROTOTYPE

Recycling Tips

General Tips

Follow these instructions whether cutting grass or leaves for the best cutting results and lawn appearance:

- Maintain a **sharp blade** throughout the cutting season. Bring mower to an Authorized Toro Service Dealer for blade sharpening.
- **Only mow dry grass or leaves.** Wet grass and leaves tend to clump on yard and may cause mower to plug or mower to stall. They also may be slippery to walk on and could cause you to slip and fall.

⚠ WARNING

POTENTIAL HAZARD
- **Wet grass or leaves can cause you to slip and contact blade.**

WHAT CAN HAPPEN
- **Blade contact can seriously injure you.**

HOW TO AVOID THE HAZARD
- **Mow only in dry conditions.**

- Clean clippings or leaves from underside of mower deck after each mowing.

Cutting Grass

- Grass grows at different rates at different times of the year. In the heat of the summer, it is generally best to cut grass at the C, D or E height-of-cut settings. Only about 1/3 of the grass blade should be cut off. Cutting below the C setting is not recommended unless grass is sparse or it is late fall when grass growth begins to slow down.
- When cutting grass over six inches tall, you may want to first mow using the highest height-of-cut setting and a slower walking speed; then mow again at a lower setting for best lawn appearance. If grass is too long and leaves clumps on top of lawn, mower may plug and cause motor to stall.
- Alternate mowing direction. This helps disperse clippings over lawn for even fertilization.

If the finished cut lawn appearance is unsatisfactory, try one or more of the following:

- Sharpen the blade. Bring mower to an Authorized Toro Service Dealer for blade sharpening.
- Walk at a slower pace while mowing.
- Raise the height-of-cut setting on your mower.
- Cut grass more frequently.
- Overlap cutting swaths instead of cutting a full swath with each pass.
- Mow across the marginal areas a second time.

Cutting Leaves

- When cutting is complete, always be sure that 50% of the lawn shows through the cut leaf cover. This may require one or more passes over the leaves.
- Walk at a slower mowing speed if leaves are not being cut up finely enough to be hidden down in the grass.
- If you cut up a lot of oak leaves, you might want to add lime to your grass in the spring. Lime reduces the acidity of oak leaves.

PROTOTYPE

Maintenance

⚠ WARNING

POTENTIAL HAZARD

- **When extension cord is connected to mower and plugged into a normal household outlet, the mower is operational. Someone could accidentally start the mower.**

WHAT CAN HAPPEN

- **Accidental starting of mower could seriously injure you or other bystanders.**

HOW TO AVOID THE HAZARD

- **Always remove extension cord from household outlet when leaving mower unattended, even for a short period of time.**

Cleaning

Before cleaning mower, stop motor, wait for all moving parts to stop, and disconnect extension cord from household outlet.

IMPORTANT: Do not clean mower with a garden hose. Moisture can be trapped in mower and may cause corrosion of internal parts.

After Every Use

- Clean the underside of the mower housing. Be particularly careful to keep kickers free of all debris (Fig. 14). Remove dirt and grass clippings with a hardwood scraper. Avoid burrs and sharp edges.
- Brush all debris off top of mower housing.
- Remove plug from discharge tunnel and clean off all debris. When grass is thick and lush, clippings may collect on and around the plug; this may make plug removal difficult.

Once A Year

- Remove top shroud and clean out any debris underneath it with compressed air, a vacuum cleaner or a brush.
- Check for any discolored or charred wires or switch contacts. If any are damaged, see your Authorized Toro Service Dealer for repairs.

Blade

Always mow with a sharp blade. A sharp blade cuts cleanly and without tearing or shredding the grass blades like a dull blade.

Do not attempt to remove blade. If your blade requires sharpening, see your Authorized Toro Service Dealer. Your dealer will have the proper equipment for blade removal and testing.

Servicing Double-insulated Mower

In a double-insulated mower, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated mower, nor should a means for grounding be added to the mower. Servicing a double-insulated mower requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated mower must be identical to the parts they replace. A double-insulated mower is marked with the words "DOUBLE INSULATION" or "DOUBLE INSULATED." The symbol (square within a square) ⧈ may also be marked on the mower.

PROTOTYPE

Storage

Store mower in a cool, clean, dry place. Cover mower to keep it clean and protected.

1. Clean mower housing. See Cleaning section in Maintenance chapter.

2. Remove grass clippings, dirt and grime from external parts of the shrouding and top of mower housing.

3. Check condition of blade. See Blade section in Maintenance chapter.

4. Tighten all nuts, bolts, and screws.

PROTOTYPE



PROTOTYPE